Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	gateway same element$1 same compar$4 same header$1 same screen$4 same rule$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/28 17:57
L2	3	packet$1 same match$4 same (subset$1 sub-set$1 (sub adj set$1)) same rule$1 same screen$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/28 17:58
L3	1	author$5 same gateway same element$1 same rule$1 same modif$5 same configur$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/28 17:59

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	23	gateway same packet$1 same rule$1 same screen$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/28 11:26
L2	6	1 and (hierarchi$4 same structur$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/28 11:26
L3	5	2 and (@rlad<"20010118" or @ad<"20010118")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/28 11:53

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1 A logical view of structured files
Serge Abiteboul, Sophie Cluet, Tova Milo
May 1998 **The VLDB Journal — The International Journal on Very Large Data Bases,**
Volume 7 Issue 2
Full text available: 📄 pdf(288.29 KB)   Additional Information: full citation, abstract, citings, index terms

> Structured data stored in files can benefit from standard database technology. In particular,
> we show here how such data can be queried and updated using declarative database
> languages. We introduce the notion of *structuring schema*, which consists of a grammar
> annotated with database programs. Based on a structuring schema, a file can be viewed as
> a database structure, queried and updated as such. For *queries*, we show that almost
> standard database optimization techniques can be use ...
>
> **Keywords**: Database, File system, Query, Query and update optimization, Textual data,
> Update

2 Fortran 8X draft
Loren P. Meissner
December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4
Full text available: 📄 pdf(21.36 MB)   Additional Information: full citation, abstract, index terms

> **Standard Programming Language Fortran.** This standard specifies the form and
> establishes the interpretation of programs expressed in the Fortran language. It consists of
> the specification of the language Fortran. No subsets are specified in this standard. The
> previous standard, commonly known as "FORTRAN 77", is entirely contained within this
> standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77
> program is standard conforming under this standard. New features can b ...

3 Firmato: A novel firewall management toolkit
Yair Bartal, Alain Mayer, Kobbi Nissim, Avishai Wool
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4
Full text available: 📄 pdf(917.80 KB)   Additional Information: full citation, abstract, references, index terms

> In recent years packet-filtering firewalls have seen some impressive technological advances
> (e.g., stateful inspection, transparency, performance, etc.) and wide-spread deployment. In
> contrast, firewall and security <i>management</i> technology is lacking. In this paper we

present <i>Firmato</i>, a firewall management toolkit, with the following distinguishing properties and components: (1) an entity-relationship model containing, in a unified form, global knowledge of the sec ...

Keywords: Security policy, firewall, management, model definition language, visualization

4 Graphical interaction with heterogeneous databases

T. Catarci, G. Santucci, J. Cardiff
May 1997 **The VLDB Journal — The International Journal on Very Large Data Bases,**
Volume 6 Issue 2
Full text available: pdf(602.82 KB)   Additional Information: full citation, abstract, citings, index terms

During the past few years our research efforts have been inspired by two different needs. On one hand, the number of non-expert users accessing databases is growing apace. On the other, information systems will no longer be characterized by a single centralized architecture, but rather by several heterogeneous component systems. In order to address such needs we have designed a new query system with both user-oriented and multidatabase features. The system's main components are an adaptive visua ...

5 An empirically based system for processing definite descriptions

Renata Vieira, Massimo Poesio
December 2000 **Computational Linguistics,** Volume 26 Issue 4

Full text available: pdf(2.94 MB)   Additional Information: full citation, abstract, references
Publisher Site

We present an implemented system for processing definite descriptions in arbitrary domains. The design of the system is based on the results of a corpus analysis previously reported, which highlighted the prevalence of discourse-new descriptions in newspaper corpora. The annotated corpus was used to extensively evaluate the proposed techniques for matching definite descriptions with their antecedents, discourse segmentation, recognizing discourse-new descriptions, and suggesting anchors for brid ...

6 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT),** Volume 2 Issue 2

Full text available: pdf(335.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

7 Prevention of deadlocks and livelocks in lossless backpressured packet networks

Mark Karol, S. Jamaloddin Golestani, David Lee
December 2003 **IEEE/ACM Transactions on Networking (TON),** Volume 11 Issue 6

Full text available: pdf(542.99 KB)   Additional Information: full citation, abstract, references, index terms

No packets will be dropped inside a packet network, even when congestion builds up, if congested nodes send backpressure feedback to neighboring nodes, informing them of

unavailability of buffering capacity-stopping them from forwarding more packets until enough buffer becomes available. While there are potential advantages in backpressured networks that do not allow packet dropping, such networks are susceptible to a condition known as deadlock in which throughput of the network or part of the ...

Keywords: backpressure, bounded delay, congestion control, deadlock prevention, livelock prevention, lossless networks

8 IPNL: A NAT-extended internet architecture
Paul Francis Ramakrishna
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4

Full text available: pdf(241.65 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents and analyzes IPNL (for IP Next Layer), a NAT-extended Internet protocol architecture designed to scalably solve the address depletion problem of IPv4. A NAT-extended architecture is one where only hosts and NAT boxes are modified. IPv4 routers and support protocols remain untouched. IPNL attempts to maintain all of the original characteristics of IPv4, most notably address prefix location independence. IPNL provides true site isolation (no renumbering), and allows sites to be ...

9 Visualizing packet traces
John A. Zinky, Fredric M. White
October 1992 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures & protocols**, Volume 22 Issue 4

Full text available: pdf(1.34 MB)   Additional Information: full citation, abstract, references, index terms

This paper describes an environment for visualizing packet traces that greatly simplifies troubleshooting protocol implementations. Network management centers routinely collect packet traces to tally traffic statistics and to troubleshoot protocol configuration and implementation problems. Previous efforts have focused on the reliable collection of traces and their statistical interpretation. Display of packet traces was restricted to a textual representation of the raw headers. Our prototy ...

10 Load-tolerant differentiation with active queue management
U. Bodin, O. Schelen, S. Pink
July 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 3

Full text available: pdf(1.45 MB)   Additional Information: full citation, abstract, index terms

Current work in the IETF aims at providing service differentiation on the Internet. One proposal is to provide loss differentiation by assigning levels of drop procedence to IP packets. In this paper, we evaluate the active queue management (AQM) mechanisms RED In and Out (RIO) and Weighted RED (WRED) in providing levels of drop precedence under different loads. For low drop precedence traffic, FIO and WRED can be configured to offer sheltering (i.e., low drop precedence traffic is protect ...

11 Case-based reasoning: A comparative evaluation of name-matching algorithms
L. Karl Branting
June 2003 **Proceedings of the 9th international conference on Artificial intelligence and law**

Full text available: pdf(233.90 KB)   Additional Information: full citation, abstract, references

Name matching---recognizing when two different strings are likely to denote the same entity---is an important task in many legal information systems, such as case-management

systems. The naming conventions peculiar to legal cases limit the effectiveness of generic approximate string-matching algorithms in this task. This paper proposes a three-stage framework for name matching, identifies how each stage in the framework addresses the naming variations that typically arise in legal cases, describ ...

12 FLIP: a flexible interconnection protocol for heterogeneous internetworking
Ignacio Solis, Katia Obraczka
August 2004 **Mobile Networks and Applications**, Volume 9 Issue 4

Full text available: pdf(549.43 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes the Flexible Interconnection Protocol, or FLIP, whose main goal is to allow interconnection of heterogeneous devices with varying power, processing, and communication capabilities, ranging from simple sensors to more powerful computing devices such as laptops and desktops. The vision is that FLIP will be used to interconnect such devices forming clouds in the farthest branches/leaves of the Internet, while still providing connectivity with the existing IP-based Internet infr ...

Keywords: flexible headers, heterogeneous networks, optimized headers, sensor networks

13 Spontaneous group management in mobile Ad Hoc networks
Laura Galluccio, Giacomo Morabito, Sergio Palazzo
July 2004 **Wireless Networks**, Volume 10 Issue 4

Full text available: pdf(448.23 KB)   Additional Information: full citation, abstract, references, index terms

This paper deals with the problem of Location Management in mobile ad hoc networks where users are organized in groups. In the following this type of systems are referred to as Mobile Ad hoc Networks for Group Operations (MANGO). This paper proposes a framework for location management which exploits the trend of mobile users to spontaneously form groups in MANGOs. The management procedures required to support such spontaneous groups, which are by nature dynamic, are introduced as well. The propo ...

Keywords: ad hoc networks, group mobility, location updating, mobility management

14 Mobile and multicast IP services in PACS: system architecture, prototype, and performance
Yongguang Zhang, Bo Ryu
January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

Full text available: pdf(299.74 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Mobile IP, PACS, cellular network, internet service, multicast

15 An analysis of BGP convergence properties
Timothy G. Griffin, Gordon Wilfong
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.35 MB)   Additional Information: full citation, abstract, references, citings, index terms

The Border Gateway Protocol (BGP) is the *de facto* inter-domain routing protocol used to exchange reachability information between Autonomous Systems in the global Internet. BGP is a path-vector protocol that allows each Autonomous System to override distance-based metrics with policy-based metrics when choosing best routes. Varadhan *et al.* [18] have shown that it is possible for a group of Autonomous Systems to independently define BGP policies that together lead to BGP protocol os ...

16 CPU reservations and time constraints: efficient, predictable scheduling of independent activities
Michael B. Jones, Daniela Roşu, Marcel-Cătălin Roşu
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5
Full text available: pdf(2.25 MB)   Additional Information: full citation, references, citings, index terms

17 Scalable packet classification
Florin Baboescu, George Varghese
February 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 1
Full text available: pdf(501.73 KB)   Additional Information: full citation, abstract, references, index terms

Packet classification is important for applications such as firewalls, intrusion detection, and differentiated services. Existing algorithms for packet classification reported in the literature scale poorly in either time or space as filter databases grow in size. Hardware solutions such as TCAMs do not scale to large classifiers. However, even for large classifiers (say, 100 000 rules), any packet is likely to match a few (say, 10) rules. This paper seeks to exploit this observation to produce ...

18 Transport: The power of explicit congestion notification
Aleksandar Kuzmanovic
August 2005 **Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '05**
Full text available: pdf(251.91 KB)   Additional Information: full citation, abstract, references, index terms

Despite the fact that Explicit Congestion Notification (ECN) demonstrated a clear potential to substantially improve network performance, recent network measurements reveal an extremely poor *usage* of this option in today's Internet. In this paper, we analyze the roots of this phenomenon and develop a set of novel incentives to encourage network providers, end-hosts, and web servers to apply ECN.Initially, we examine a fundamental drawback of the current ECN specification, and demonstrate ...

Keywords: active queue management, congestion control, explicit congestion notification

19 Office-by-example: an integrated office system and database manager
Kyu-Young Whang, Art Ammann, Anthony Bolmarcich, Maria Hanrahan, Guy Hochgesang, Kuan-Tsae Huang, Al Khorasani, Ravi Krishnamurthy, Gary Sockut, Paula Sweeney, Vance Waddle, Moshé Zloof
October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4
Full text available: pdf(2.86 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language

feature called example elements. Applications involving example elements are processed by the database manager, an integrated ...

20 BGP-S: a protocol for terrestrial and satellite network integration in network layer

Eylem Ekici, Chao Chen
September 2004 Wireless Networks, Volume 10 Issue 5

Full text available: pdf(332.30 KB)   Additional Information: full citation, abstract, references, index terms

To accomplish network layer integration of terrestrial and satellite IP networks, special exterior gateway protocols are needed. In this work, a new exterior gateway protocol called Border Gateway Protocol-Satellite version (BGP-S) is introduced that enables automated discovery of paths that go through the satellite network. This protocol is designed to work in only one terrestrial gateway in every Autonomous System and enables the forwarding of discovered paths in the Internet using the BGP- ...

Keywords: BGP-4, IP-based routing, exterior gateway protocol, satellite networks

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